

11th International Conference on
Air Quality · Science & Application · 2018

Scientific Programme

Air Quality Science and Application

Universitat Pompeu Fabra Campus de la Ciutadella, Barcelona
12-16 March 2018



University of
Hertfordshire



Ajuntament de
Barcelona



Overview Programme of the 11th International Conference on Air Quality - Science and Application

12-16 March 2018, Barcelona, Spain

Venue: Universitat Pompeu Fabra / Campus de la Ciutadella / Ramon Trias Fargas, 25-27/ 08005 Barcelona

Monday 12 March 2018

17:00 Registration desk open at Campus Ciutadella, Exhibition Room (in front of the Auditorium)

19:30 Ice breaker reception at (EXHIBITION ROOM)

Tuesday 13 March 2018

08:00 Registration desk open at conference venue (EXHIBITION ROOM)

08:55 Plenary session (AUDITORIUM - ROOM A) Chairs: Ranjeet S Sokhi, Jordi Remírez i Carol

09:00 Welcome and opening of the conference by Frederic Ximeno Roca, Commissioner for Ecology, Barcelona City Council

09:20 2060 1882

10:00 Tea/coffee and poster session (EXHIBITION ROOM)

10:25 Air pollution sources and emissions

Chairs: Jaakko Kukkonen and Bruce Denby

2001 1969 1877 1999

Air quality management for policy support

Chairs: Tim Chatterton and Joan Marc Craviotto Arnau

1924 1837 1932 1816 1874

Air quality measurement and process

Chairs: Nicolas Moussiopoulos and Charles Chemel

1787 2065 2023 1985 1887

12:10-13:30 Lunch at the University Restaurant - Tea/ Coffee in the Exhibition Room

13:45 Air pollution sources and emissions

Chairs: Jana Moldanova and Enrico Pisoni

2078 2054 1997 1830 1959

Air quality management for policy support

Chairs: Matthias Ketzler and Steen Solvang Jensen

1972 1802 1796 1798

Air quality measurements and process

Chairs: Xavier Querol and Guenter Baumbach

2030 2052 2067 1976 2025 1792

15:50 Tea/coffee and poster session (EXHIBITION ROOM)

16:15 Air pollution sources and emissions

Chairs: Jana Moldanova and Enrico Pisoni

2012 2047 1892

Health integrated assessment for air quality

Chairs: Matthias Karl and Vera Samburova

1960 1866 1876 1861

Air quality measurements and process

Chairs: Helen Smith and Xavier Querol

1852 1823 1889 1964 2009

18:00 Close of sessions

19:00 Visit to the permanent exhibition at the Design Museum of Barcelona (DHUB) (Plaça de les Glòries Catalanes, 37)

19:45 Welcome reception at the Design Museum of Barcelona (DHUB)

Wednesday 14 March 2018

08:00 Registration desk open at Campus Ciutadella (in front of the Auditorium)

08:55 Plenary session (AUDITORIUM-ROOM A)

Chairs: Ranjeet S Sokhi, Jordi Remírez i Carol

1958 1895 2064

10:00 Tea/coffee and poster session (EXHIBITION ROOM)

10:25 Air pollution sources and emissions

Chairs: Charles Chemel and Joan Marc Craviotto Arnau

2020 2029 2018 1833 1987

Health impacts from air pollution exposure

Chairs: Anna Oudin and Ebba Malmqvist

1801 1891 1909 1774

Air quality measurements and process

Chairs: Xavier Querol and Núria Castell

1910 2041 1979 2058 1949

12:10-13:30 Lunch at the University Restaurant- Tea/Coffee in the Exhibition Room

13:45 Air pollution sources and emissions

Health impacts from air pollution exposure

Indoor air quality (ROOM C)

	Chairs: Volker Matthias and Pushp Raj Tiwari 2061 1995 1849 1952 1984 1886	Chairs: Christer Joahansson and Vera Samburova 1788 1836 1946 1853 2043	Chairs: Steen Solvang Jensen and Jaakko Kukkonen 1817 2070 1962 2007
15:50	Tea/coffee and poster session (EXHIBITION ROOM)		
16:15	Air pollution sources and emissions	Health impacts from air pollution exposure	Air quality forecasting (ROOM C)
	Chairs: Volker Matthias and Pushp Raj Tiwari 2085 1967 1872 2059	Chairs: Christer Joahansson and Vera Samburova 2014 1799 1902 2069 2019	Chairs: Idir Bouarar and Gabriele Curci 1820 1917 1811 1922 1805 1911
18:00	Meeting of the International Scientific Advisory Committee and Session Chairs (Room B)		
18:20	Close of sessions		
	Free evening		

Thursday 15 March 2018

08:00	Registration desk open at Campus Ciutadella (in front of the Auditorium)		
08:55	Plenary session (AUDITORIUM-ROOM A)		
	Chairs: Ranjeet S Sokhi, Jordi Remírez i Carol 1783 1920 2006		
10:00	Tea/coffee and poster session (EXHIBITION ROOM)		
10:25	Special session - Atmospheric-Climat	Meteorological processes and interactions	Development, application and evaluation of
	Chairs: Alexander Mahura and Núria Castell 1827 1991 2077 1973	Chairs: Charles Chemel and Alberto Martilli 1939 1864 2027 2008 1839	Chairs: Sandro Finardi and Klaus Schaefer 1982 1859 1871 2084 1824
12:10-13:30	Lunch at the University Restaurant - Tea/Coffee at the Exhibition Room		
13:45	Special session - Atmospheric-Climat	Meteorological processes and interactions	Development, application and evaluation of
	Chairs: Alexander Mahura and Jaakko 2031 1981 1834	Chairs: Ricardo Buccolieri and Martin Piringer 2072 1865 1842 1918 2021 1856	Chairs: John Bartzis and Bruce Denby 1822 1779 2042 2088 1971
15:50	Extended Tea/coffee and poster session (EXHIBITION ROOM) - CONFERENCE PHOTOGRAPH		
16:35	Remote sensing and satellite observations	Meteorological processes and interactions	Development, application and evaluation of
	Chairs: Nicolas Moussiopoulos and Helen Smith 1797 1970 1936	Chairs: Charles Chemel and Martin Piringer 1897 1869 1903 1828	Chairs: John Bartzis and Bruce Denby 1919 1847 2015
18:00	Close of sessions		
19:30	Conference banquet at Restaurant Shoko (Passeig Marítim 36)		

Friday 16 March 2018

08:00	Registration desk open at Campus Ciutadella (in front of the Auditorium)		
08:55	Plenary session (AUDITORIUM-ROOM)		
	Chairs: Ranjeet S Sokhi, Jordi Remírez i Carol 2066 2016 1838		
10:00	Tea/coffee and poster session (EXHIBITION ROOM)		
10:25	Special session - Air quality in Global Cities	Special Session - Dust and its impacts on	Development, evaluation and application of
	Chairs: William Bloss and Mei Zheng 2086 2017 1990 2071 2074	Chairs: Sara Basart and Carlos Pérez García- 2049 1961 1954 1951 2073 2079	Chairs: Charles Chemel and Pushp Raj Tiwari 2028 1826 1977 1784
12:10-13:30	Lunch at the University Restaurant - Tea and Coffee in the Exhibition Room		

13:45	<u>Special session - Air quality in global cities</u>	<u>Special session - Characterisation and</u>	<u>Local Air Quality and Impacts Studies</u>
	Chairs: William Bloss and Mei Zheng 1914 1873	Chairs: Helen Smith and Charles Chemel 1885 1829 2005 1806	Chairs: Alexander Baklanov and Alberto Martilli 1785 1843 1901 1818

15:10 Plenary session (AUDITORIUM-ROOM A)
Future direction of air quality research

Chairs: Ranjeet S. Sokhi, Jordi Remírez i Carol, with Session Chairs and closing words from Gemma Tarafa Orpinell, Commissioner for Health, Barcelona City

15:50 El Dúo del Mar guitar performance

16:30 Close of conference and Farewell Tea/coffee (EXHIBITION ROOM)

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09:00 Welcome and opening of the conference by Frederic Ximeno Roca, Commissioner for Ecology, Barcelona City Council

09:20 PUTTING PEOPLE AT THE HEART OF AIR QUALITY MANAGEMENT

Tim Chatterton 2060

09:40 FAIRMODE WG5: A NOVEL CITY PILOT APPROACH FOR IMPROVING AIR QUALITY MANAGEMENT PRACTICES

Enrico Pisoni 1882

10:00 Tea/coffee and poster session (EXHIBITION ROOM)

10:25 Air pollution sources and emissions (AUDITORIUM - ROOM A) Chairs: Jaakko Kukkonen and Bruce Denby

10:30 A SOURCE APPORTIONMENT ASSESSMENT OF OZONE CONCENTRATION IN PEAK SUMMER EVENTS OVER SOUTHWESTERN EUROPE

Maria Teresa Pay 2001

10:50 MULTIVARIATE STATISTICAL METHODS APPLIED ON ORGANIC MARKER SPECIES AS AN EFFECTIVE TOOL IN SOURCE IDENTIFICATION STUDIES AT A LOCAL SCALE

Kristina Strbova 1969

11:10 POTENTIAL SOURCES OF PM10 IMPACTING THE HAUTS-DE-FRANCE REGION OVER A 5-YEAR PERIOD (2009-2013) IDENTIFIED BY RECEPTOR MODELING: INFLUENCE OF PRECIPITATION, AIR MASS ALTITUDE, LENGTH OF BACKWARD TRAJECTORIES AND THE USE OF A WEIGHTING FUNCTION

Antoine Waked 1877

11:30 AIR QUALITY AND POLLUTANT EMISSIONS IN THE MOSCOW MEGACITY

Vadim Rakitin 1999

Air quality management for policy support (ROOM B) Chairs: Tim Chatterton and Joan Marc Craviotto Arnau

FURTHER DEVELOPMENT OF AIR QUALITY CONTROL PLANNING AND AIR QUALITY MONITORING IN ULAANBAATAR THE CAPITAL OF MONGOLIA

Guenter Baumbach 1924

INVESTIGATION OF THE INFLUENCE OF CARBURETOR MOTORCYCLES REPLACEMENT BY ELECTRICALLY CHARGED MOTORCYCLES DUE TO LEZ IMPLEMENTATION ON TEHRAN AIR QUALITY

Vahid Hosseini 1837

ESTABLISHMENT OF A USER FRIENDLY URBAN AIR QUALITY SCENARIO ASSESSMENT SERVICE USING COPERNICUS - CAMS DATA FOR BRATISLAVA

Bino Maiheu 1932

CFD MODELLING OF THE IMPACT ON THE NOX REDUCTION THROUGH A PHOTOCATALYTIC COATING COVERING AN ENTIRE NEIGHBORHOOD: A HYPOTHETICAL CASE STUDY

Alberto Martilli 1816

Air quality measurements and process studies (ROOM C) Chairs: Nicolas Moussiopoulos and Charles Chemel

STUDIES OF SEMI-VOLATILE HYDROCARBONS IN DIESEL EXHAUST AND AMBIENT AIR

Salim Alam 1787

HIGH O3 & UFP EPISODES IN SPAIN: BOTTOM-UP OR UP-DOWN DOMINATED ATMOSPHERIC PROCESSES

Xavier Querol 2065

EVALUATION AND COMPARISON OF CONTINUOUS BC AND NOX MEASUREMENTS IN THREE SWEDISH CITIES (STOCKHOLM, GÖTEBORG AND MALMÖ) IN RELATION TO SOURCES AND TEMPORAL VARIABILITY

Mohammad Azim 2023

SPATIAL DISTRIBUTION OF BLACK CARBON IN ROME: CASE STUDY FOR HIGHLY QUALITY-ASSURED MOBILE MEASUREMENTS

Honey Dawn Alas 1985

11:50	EXHIBITION	MODELLING THE EFFECT OF ELECTRO MOBILITY ON THE AIR QUALITY IN HAMBURG	ATMOSPHERIC DEPOSITION OF TRACE ELEMENTS IN THE VICINITY OF KARDZHALI LEAD-ZINC PLANT IN BULGARIA BASED ON MOSS BIOMONITORING
		Matthias Karl 1874	Gergana Hristozova 1887
12:10-13:30	Lunch at the University Restaurant - Tea/Coffee in the Exhibition Room		
13:45	Air pollution sources and emissions (AUDITORIUM - ROOM A) Chairs: Jana Moldanova and Enrico Pisoni	Air quality management for policy support (ROOM B) Chairs: Matthias Ketzel and Steen Solvang Jensen	Air quality measurements and process studies (ROOM C) Chairs: Xavier Querol and Guenter Baumbach
13:50	GREEN BIOMASS OFFERS GREY FUTURE FOR AIR QUALITY	AIR QUALITY ASSESSMENT OF RETROFITTING SCRT ON URBAN BUSES IN COPENHAGEN	NORTH HEMISPHERE AIR QUALITY TRANSECTS TO ASSESS LEGACY AND EMERGING SEMIVOLATILE ORGANIC CONTAMINANTS
	Darius Ceburnis 2078	Steen Solvang Jensen 1972	Nuno Ratola 2030
14:10	THE INFLUENCE OF SHIPPING EMISSIONS ON POLLUTANT CONCENTRATIONS IN THE BALTIC SEA REGION	SPEED LIMITATION IN METROPOLITAN AREA OF BARCELONA: IMPACT ON AIR QUALITY	THREE DIMENSIONAL OBSERVATIONS (3DO) OF AIR QUALITY IN STUTTGART UNDER THE GERMAN FEDERAL MINISTRY FOR EDUCATION AND RESEARCH (BMBF) PROJECT
	Armin Aulinger 2054	Eusebio Jarauta-Bragulat 1802	Abdul Samad 2052
14:30	THE IMPACT OF EMISSIONS FROM SHIPS IN THE GOTHENBURG AREA ON URBAN SCALE AIR QUALITY AND HUMAN HEALTH	THE POTENTIAL IMPACT ON AIR QUALITY OF ENERGY SAVING MEASURES BY CITIES OF THE COVENANT OF MAYORS INITIATIVE	VERTICAL DISTRIBUTION OF REGIONAL NEW PARTICLE FORMATION EVENTS IN MADRID
	Jana Moldanova 1997	Fabio Monforti Ferrario 1796	Cristina Carnerero 2067
14:50	ASSESSMENT OF DISCREPANCIES BETWEEN BOTTOM-UP AND REGIONAL EMISSION INVENTORIES	REMOVAL OF PARTICLES ORIGINATING FROM TRAFFIC BY VEHICLES IN MEGACITIES THROUGH ACTIVE ON-BOARD FILTRATION UNITS	VERTICAL PROFILES OF LUNG DEPOSITED SURFACE AREA CONCENTRATION OF PARTICULATE MATTER MEASURED WITH A DRONE IN AN URBAN STREET CANYON
	Susana Lopez-Aparicio 1830	Ralf Otterpohl 1798	Heino Kuuluvainen 1976
15:10	COMPARISON OF A NEW EMISSION INVENTORY FOR THE NORDIC COUNTRIES AND GLOBAL INVENTORIES	Open Discussion - Way ahead for air quality management	BLACK CARBON AND ULTRAFINE PARTICLES IN THE PORT OF CIVITAVECCHIA (ITALY)
	Ville-Veikko Paunu 1959		Gian Paolo Gobbi 2025
15:30	EXHIBITION	EXHIBITION	THE IMPACT OF VOLATILE ORGANIC COMPOUNDS ON NEAR SURFACE OZONE FORMATION IN RUSSIAN CITIES
			Andrey Skorokhod 1792
15:50	Tea/coffee and poster session (EXHIBITION ROOM)		
16:15	Air pollution sources and emissions (AUDITORIUM - ROOM A) Chairs: Jana Moldanova and Enrico Pisoni	Health integrated assessment for air quality policy support (ROOM B) Chairs: Matthias Karl and Vera Samburova	Air quality measurements and process studies - SENSORS (ROOM C) Chairs: Helen Smith and Xavier Querol
16:20	CONCENTRATIONS AND EMISSION FACTORS OF TRAFFIC ORIGINATED NANOCLUSTER AEROSOLS	HIGH RESOLUTION MODELLING AND INTEGRATED HEALTH IMPACT ASSESSMENT OF AIR POLLUTION - THE NORDICWELFAIR PROJECT	CAN LOW-COST AIR QUALITY SENSORS HELP TO MONITOR AIR POLLUTION IN CITIES?
	Topi Ronkko 2012	Jaakko Kukkonen 1960	Nuria Castell 1852
16:40	DECREASING TRENDS IN DIRECT EMITTED NO2/NOX RATIO IN DENMARK, GERMANY, SWEDEN AND UK - IMPLICATIONS FOR A NECESSARY UPDATE OF EUROPEAN EMISSION MODELS	ENVIRONMENTAL AND HEALTH IMPACTS FROM SHIPPING EMISSIONS: QUANTIFYING BENEFITS FROM A POTENTIAL EMISSION CONTROL AREA (ECA) IN THE MARMARA SEA (TURKEY)	FIRST STAGE OF THE POLLUSCOPE PROJECT: SELECTION AND ASSESSMENT OF PORTABLE AIR QUALITY SENSORS
	Matthias Ketzel 2047	Mar Viana 1866	Baptiste Languille 1823
17:00	A COMBINED EMISSION MODELLING APPROACH TO ESTIMATE ROAD TRAFFIC EXHAUST EMISSIONS AT URBAN SCALE	DAMAGE COST MODEL FOR AIR POLLUTION IN FINLAND	CO2 MONITORING WITH LOW-COST SENSORS: PERFORMANCE, CALIBRATION AND CARBOSENSE NETWORK INTEGRATION
	Daniela Dias 1892	Mikko Savolahti 1876	Michael Mueller 1889

17:20 **EXHIBITION**

HEALTH BENEFITS OF IMPLEMENTING EXHAUST-FREE TRANSPORTS IN MALMO MUNICIPALITY, SOUTHERN SWEDEN

LASER BASED ALL-IN-ONE ENVIRONMENTAL GAS SENSOR

Ebba Malmqvist

1861

Lukas Emmenegger

1964

17:40

PERFORMANCE TEST RESULTS FOR A COMPACT AIR QUALITY SENSOR

Hannamari Jaakkola

2009

18:00 Close of sessions

19:00 Visit to the permanent exhibition at the Design Museum of Barcelona (DHUB) (Plaça de les Glòries Catalanes, 37)

19:45 Welcome reception at the Design Museum of Barcelona (DHUB)

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08:55 Plenary session(AUDITORIUM - ROOM A) Chairs: Ranjeet S Sokhi, Jordi Remírez i Carol

09:00 MODELLING OF THE URBAN, REGIONAL AND GLOBAL AIR QUALITY ON A HIGH RESOLUTION FOR SEVERAL DECADES, FOR HEALTH IMPACT ASSESSMENTS

Jaakko Kukkonen 1958

09:20 EFFECTS OF INTERNATIONAL SHIPPING ON EUROPEAN AIR POLLUTION LEVELS

Jan Eiof Jonson 1895

09:40 VERTICAL AND HORIZONTAL EXPERIMENTAL DISPERSION OF DIESEL-RELATED POLLUTANTS WITHIN URBAN BLOCKS

Fulvio Amato 2064

10:00 Tea/coffee and poster session (EXHIBITION ROOM))

10:25 Air pollution sources and emissions (AUDITORIUM - ROOM A) Charles Chemel and Joan Marc Craviotto Arnau

10:30 NEW OPEN SOURCE EMISSION PROCESSOR FOR AIR QUALITY MODELS

Ondrej Vlcek 2020

10:50 OLYMPUS: AN URBAN EMISSIONS MODEL CENTERED ON INDIVIDUAL

Arthur Elessa 2029

11:10 EMISSION MODELS FOR FUGITIVE PARTICULATE MATTER IN HOT-DRY ENVIRONMENTS

Hala Hassan 2018

11:30 METHOD FOR DEVELOPMENT OF HIGH-RESOLUTION EMISSIONS FROM RESIDENTIAL WOOD COMBUSTION

Henrik Grythe 1833

11:50 MODELING EMISSIONS FOR 3D ATMOSPHERIC CHEMISTRY TRANSPORT MODELS

Volker Matthias 1987

Health impacts from air pollution exposure (ROOM B) Chairs: Anna Oudin and Ebba Malmqvist

SIXTEEN POLYCYCLIC AROMATIC HYDROCARBONS. DO THEY REPRESENT PAH AIR TOXICITY?

Vera Samburova 1801

OZONE AND VEHICLE EXHAUST PM EXPOSURE AND ITS ASSOCIATION WITH ADVERSE PREGNANCY OUTCOMES

Christer Johansson 1891

BRONCHIAL AND VASCULAR EFFECTS INDUCED BY DIFFERENT DIESEL PARTICLES EMISSION SOURCES

Rossella Bengalli 1909

PARTICULATE MATTER AND MARKERS OF GLYCEMIC CONTROL AND INSULIN RESISTANCE IN TYPE 2 DIABETIC PATIENTS: RESULT FROM WELLCOME TRUST GENETIC STUDY

Morteza Abdullatif Khafaie 1774

EXHIBITION

Air quality measurements and process studies (ROOM C) Chair: Xavier Querol and Núria Castell

BIOMASS BURNING IMPACT ON AIR QUALITY IN DIFFERENT SPANISH LOCATIONS USING ACSM

Maria Cruz Minguillon 1910

POLLUTION SOURCES AND ATMOSPHERIC PROCESSES IN BACKGROUND MILAN BY 1-HOUR TIME RESOLUTION DATA OF PM2.5 COMPOSITION AND GASEOUS PRECURSORS

Alessandro Bigi 2041

ESTIMATE OF NITROUS ACID EMISSIONS FROM TRAFFIC IN A UK ROAD TUNNEL

Louisa Kramer 1979

CHARACTERIZING AIR QUALITY IN DIFFERENT URBAN SITES: TUNNEL AND SCHOOL

Milagros Rodenas 2058

SPATIAL AND TEMPORAL VARIABILITY OF ULTRA-FINE PARTICLES TRANSVERSE TO A MAIN ROAD IN BERLIN, GERMANY

Sabine Fritz 1949

12:10-13:30 Lunch at the University Restaurant - Tea/Coffee in the Exhibition Room

	Air pollution sources and emissions (AUDITORIUM - ROOM A) Chairs: Volker Matthias and Pushp Raj Tiwari	Health impacts from air pollution exposure (ROOM B) Chairs: Christer Johansson and Vera Samburova	Indoor air quality (ROOM C) Steen Solvang Jensen and Jaakko Kukkonen
13:45	IMPACTS ON AIR QUALITY DUE TO AVIATION EMISSIONS	HEALTH RISK ASSESSMENT AND SOURCE APPORTIONMENT OF AMBIENT VOLATILE ORGANIC COMPOUNDS IN PRIMARY SCHOOLS IN TAoyUAN, NORTH TAIWAN (Not in Abstract Proceeding)	INVESTIGATION OF THE SUBMICRON PARTICLE BUDGET IN AN UNOCCUPIED BUILDING
	Amela Jericevic 2061	Dika Widiana 1788	Evdokia Stratigou 1817
14:10	CITY BUS EMISSIONS IN REAL OPERATION	THE EFFECTS OF PHOTOCHEMICAL AIR POLLUTION ON RESPIRATORY HEALTH IN ABUJA NIGERIA	SEASONAL CONTRASTS OF INDOOR EXPOSURE TO PM2.5 IN URBAN & RURAL BEIJING
	Topi Rönkkö 1995	Christabel Ihedike 1836	Hanbin Zhang 2070
14:30	ASSESSMENT OF BLACK CARBON CONCENTRATIONS AND EMISSION SOURCES IN CURITIBA, BRAZIL	ASSOCIATION BETWEEN RESIDENTIAL WOOD BURNING AND DEMENTIA INCIDENCE IN A LONGITUDINAL STUDY IN NORTHERN SWEDEN	PARTICULATE MATTER MEASUREMENTS IN AN UNDERGROUND RAILWAY STATION IN NORWAY
	Lars Gidhagen 1849	Anna Oudin 1946	Claudia Hak 1962
14:50	CONTROLLING THE EMISSIONS OF AND POPULATION EXPOSURE TO PRIMARY PM2.5 FROM RESIDENTIAL WOOD COMBUSTION AND VEHICULAR NON-EXHAUST SOURCES IN 2030 IN FINLAND	TRENDS IN AIR POLLUTANTS AND HEALTH IMPACTS IN THREE SWEDISH CITIES OVER THE PAST THREE DECADES	PM CONCENTRATIONS IN RAILROAD TUNNELS IN STOCKHOLM AND IN DRIVER CABIN OF COMMUTER TRAINS
	Niko Karvosenoja 1952	Henrik Olstrup 1853	Sanna Silvergren 2007
15:10	AN ATTEMPT OF VALIDATION OF INDUSTRIAL POLLUTANT RELEASE BOTTOM UP INVENTORIES AT SILESIA, POLAND	THE "CARBONACEOUS AEROSOL IN ROME AND ENVIRONS (CARE)" EXPERIMENT	<u>Open Discussions</u> - Links between Indoor and Outdoor Air Pollution
	Jakub Bartyzel 1984	Gian Paolo Gobbi 2043	
15:30	EMISSION OF PM10 AND COARSE PARTICLES FROM SILENT ASPHALT	EXHIBITION	
	Michael Norman 1886		
15:50	Tea/coffee and poster session (EXHIBITION ROOM)		
	Air pollution sources and emissions (AUDITORIUM - ROOM A) Chairs: Volker Matthias and Pushp Raj Tiwari	Health impacts from air pollution exposure (ROOM B) Chairs: Christer Johansson and Vera Samburova	Air quality forecasting (ROOM C) Chairs: Idir Bouarar and Gabriele Curci
16:15	SOURCE APPORTIONMENT OF PM2.5 IN BEIJING DURING THE APHH-BEIJING CAMPAIGN	ESTIMATION OF POPULATION EXPOSURES TO MAIN AIR POLLUTANTS IN FINLAND: ADJUSTMENT OF CHEMICAL TRANSPORT MODEL RESULTS BASED ON MONITORING	COMPOSITION AND ORIGIN OF FORECASTED SURFACE PM10 OVER EUROPEAN CAPITALS DURING A POLLUTED EVENT IN DECEMBER 2016
	Mei Zheng 2085	Yuliia Palamarchuk 2014	Matthieu Pommier 1820
16:40	MONITORING LONG-TERM AND LARGE SCALE DEPOSITION OF AIR POLLUTANTS BASED ON MOSS ANALYSIS	EXPOSURE OF CIVIL WORKERS TO AIRBORNE PARTICLES AND THEIR TRACE ELEMENTAL COMPOSITION	ATMOSPHERIC CHEMISTRY WITH THE ONLINE MULTISCALE NMMB-MONARCH V1.0 MODEL: GLOBAL-REGIONAL EVALUATIONS AND DATA ASSIMILATION
	Marina Frontasyeva 1967	Leila Martins 1799	Oriol Jorba 1917
17:00	POPULATION EXPOSURE TO SHIP EMISSIONS IN HARBOUR CITIES OF THE BALTIC SEA	PARTICULATE EMISSIONS FROM THE COMBUSTION OF PELLET, CHARCOAL AND WOOD INDUCE DIFFERENT CYTOTOXIC RESPONSES IN A549 CELLS	EVALUATION OF THE COPERNICUS ATMOSPHERE MONITORING (CAMS) REANALYSIS WITH RESPECT TO OZONE AND CARBON MONOXIDE
	Matthias Karl 1872	Sara Marchetti 1902	Annette Wagner 1811
17:20	FILLING DATA GAPS FOR A BETTER UNDERSTANDING OF IMPACT OF AIR POLLUTION ASSOCIATED WITH RURAL RESIDENTIAL ENERGY USE IN CHINA	PERSONAL AIR POLLUTION EXPOSURE IN RURAL AND URBAN BEIJING	AEROSOL PROFILE EVALUATION WITH IN THE COPERNICUS ATMOSPHERE MONITORING SERVICE (CAMS)

	Shu Tao	2059	Anika Krause	2069	Harald Flentje	1922
17:40	<u>Open Discussion</u> - Remaining questions on air pollution emissions?		ASSESSING PERSONAL EXPOSURE TO AIR POLLUTANTS USING AGENT BASED MODELLING AND WEARABLE SENSORS		BIAS CORRECTION OF MODERATE SCALE AIR QUALITY MODEL AS A PRAGMATIC TOOL FOR OPERATIONAL FORECAST AND HEALTH IMPACT ASSESSMENT	
			Dimitris Chapizanis	2019	Gabriele Curci	1805
18:00			Meeting of the International Scientific Advisory Committee and Session Chairs		MOBILE APP FOR AIR QUALITY FORECASTING IN GUADALAJARA, MEXICO	
					Carlos Gonzalez-Figueroa	1911
18:20	Close of sessions					
	Free evening					

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09:00 DECREASING CLIMATE CHANGE IMPACT ONE MOLECULE AT THE TIME

Ole John Nielsen 1783

09:20 IMPACT OF URBAN MORPHOLOGY ON AIR QUALITY: SPRAWL, COMPACT, CORRIDOR AND EDGE CITIES

Arthur Elessa Etuman 1920

09:40 A MULTI-MODEL OPERATIONAL AIR POLLUTION FORECASTING SYSTEM FOR CHINA

Idir Bouarar 2006

10:00 Tea/coffee and poster session (EXHIBITION ROOM)

	Special session - Atmospheric-Climate Interactions and Impacts (AUDITORIUM - ROOM A) Chairs: Alexander Mahura and Núria Castell	Meteorological processes and interactions (ROOM B) Chairs: Charles Chemel and Alberto Martilli	Development, application and evaluation of air quality related models (ROOM C) Chairs: Sandro Finardi and Klaus Schaefer
10:30	ENVIRO-HIRLAM DOWNSCALING IN RESEARCH AND OPERATIONAL APPLICATIONS FOR PEEX	ON THE COMPARISON OF URBAN ENVIRONMENT EFFECTS PARAMETERIZATION	LANGRANGIAN MODELLING EMBEDDED IN RANS CFD FOR AIR PUFF RELEASES IN URBAN ENVIRONMENTS
	Alexander Mahura 1827	Tomas Halenka 1939	John Bartzis 1982
10:50	COMBINING CLIMATE MODEL SIMULATIONS AND OBSERVATIONS TO UNDERSTAND AEROSOL EFFECTS ON ARCTIC CLIMATE	SENSITIVITY STUDY OF THE AIR QUALITY TO URBAN HEAT ISLAND MITIGATION STRATEGIES DURING A HEAT WAVE EVENT IN MILAN (ITALY) USING WRF-CHIMERE AT HIGH RESOLUTION	PM10 TRENDS IN SWITZERLAND USING RANDOM FOREST MODELS
	Tanja Dallafior 1991	Serena Falasca 1864	Stuart Grange 1859
11:10	IMPACT OF REGIONAL CIRCULATION ON METEOROLOGY AND EXTREME EVENTS OVER ASIA FOR PRESENT AND FUTURE CLIMATE CONDITIONS	STREET-LEVEL ASSESSMENT OF URBAN SCENARIOS ON THERMAL COMFORT AND AIR QUALITY BY THE MEANS OF NEWLY DEVELOPED URBAN SURFACE MODEL FOR LES MODEL PALM	DEMONSTRATION OF REAL-TIME AIR QUALITY MODELLING SYSTEMS - HELSINKI AND NANJING TESTBEDS
	Pushp Raj Tiwari 2077	Jaroslav Resler 2027	Lasse Johansson 1871
11:30	FINE PARTICLES IMPACTS ON HEALTH-CASES AND COSTS ON EUROPE UNDER CLIMATE CHANGE SCENARIOS	INFLUENCE OF SYNOPTIC CONDITIONS ON AIR POLLUTION IN MOSCOW	COMBINING AIR QUALITY MODELLING DATA AND SENSOR MEASUREMENTS IN AN INTERNET OF THINGS METHODOLOGY TO MITIGATE AIR POLLUTION IN THE BALKAN REGION
	Patricia Tarin-Carrasco 1933	Mikhail Lokoshchenko 2008	Nicolas Moussiopoulos 2084
11:50	Open Discussion - Atmospheric-Climate Interactions - implications for air quality	TURBULENCE AND DIFFUSION IN ATMOSPHERIC SURFACE LAYER: NEW KNOWLEDGE TOWARDS ADVANCED TOOLS FOR MODELLING AIR POLLUTION	DOWNSCALING OF THE EMEP MODEL USING UEMEP: WHERE SCALES MEET
		Sergej Zilitinkevich 1839	Bruce Rolstad Denby 1824

12:10-13:30 Lunch at the University Restaurant - Tea/Coffee in the Exhibition Room

	Special session - Atmospheric-Climete Interactions and Impacts (AUDITORIUM - ROOM A) Chair: Alexander Mahura and Jaakko Kukkonen	Meteorological processes and interactions (ROOM B) Chairs: Riccardo Buccolieri and Martin Piringer	Development, application and evaluation of air quality related models (ROOM C) Chairs: John Bartzis and Bruce Denby
13:45	DESCRIBING AIR QUALITY-CLIMATE INTERACTIONS WITHIN THE REPAIR PROJECT	INFLUENCE OF THE MIXING LAYER HEIGHT ON URBAN AIR QUALITY OVER BARCELONA	CONTRIBUTION OF LAND TRANSPORT EMISSIONS TO GROUND LEVEL OZONE, CALCULATED BY MEANS OF A MULTIPLY ONLINE NESTED MODEL
13:50	Laura Palacios-Peña 2031	Marco Pandolfi 2072	Mariano Mertens 1822
14:10	INFLUENCE OF ATMOSPHERIC PRECIPITATION ON AIR COMPOSITION	PARTICULATE MATTER FORECASTING BASED ON METEOROLOGICAL CONDITIONS	NUMERICAL SIMULATION OF POLLUTANT DISPERSION ON BUILT-UP ENVIRONMENTAL UNDER CHANGES OF ATMOSPHERIC STABILITY
14:30	Mikhail Lokoshchenko 1981	Panagiota Syropoulou 1865	Mohamed F. Yassin 1779
14:30	THE IMPACT OF CARBON MITIGATION MEASURES ON FUTURE AIR QUALITY	A MULTI-MODEL COMPARISON OF METEOROLOGICAL DRIVERS OF SURFACE OZONE OVER EUROPE	VALIDATION OF THE AIRGIS EXPOSURE MODELLING SYSTEM AT DIFFERENT TIME SCALES
14:50	Steven Turnock 1834	Noelia Otero 1842	Jibrán Khan 2042
14:50	Open Discussion II - Atmospheric-Climete Interactions - implications for air quality	AIR POLLUTION TRANSPORT FROM THE PO VALLEY TO THE WESTERN ALPS	MACHINE LEARNING EXPOSURE MODEL PREDICTIONS FOR GROUND-LEVEL OZONE DURING WILDFIRE EVENTS: RESULTS FOR A MAJOR WILDFIRE IN CALIFORNIA
15:10		Henri Diemoz 1918	Michael Jerrett 2088
15:10		ATMOSPHERIC VENTILATION AND PARTICULATE MATTER CONNECTIONS IN THE ATACAMA DESERT, CHILE	MODEL VALIDATION ACTIVITIES IN THE FRAME OF THE COPERNICUS ATMOSPHERE MONITORING SERVICE
15:30	EXHIBITION	Damian Oyarzun 2021	John Douros 1971
15:30		METEOROLOGICAL CONDITIONS CLASSIFICATION: APPLICATION FOR EVALUATION OF BIOMASS BURNING EMISSION ABATEMENT ON AIR QUALITY IN ARVE VALLEY (FRANCE)	EXHIBITION
15:30		Julie Allard 1856	
15:50	Extended Tea/coffee and poster session (EXHIBITION ROOM) - CONFERENCE PHOTOGRAPH		
16:35	Remote sensing and satellite observations (AUDITORIUM - ROOM A) Chairs: Nicolas Moussiopoulos and Helen Smith	Meteorological processes and interactions (ROOM B) Chairs: Charles Chemel and Martin Piringer	Development, application and evaluation of air quality related models (ROOM C) Chairs: John Bartzis and Bruce Denby
16:40	VARIATIONS AND TEMPORAL TENDENCIES IN BACKGROUND AND URBAN CO AND CH4	PM10 EXCEEDANCES AND CEILOMETER OBSERVATIONS DUE TO A PROLONGED SAHARAN DUST EPISODE OVER THE EASTERN ALPS	PM10 AND BLACK CARBON VERTICAL PROFILES IN THREE ITALIAN VALLEYS: ANALYSIS OF MEASUREMENTS AND HIGH RESOLUTION MODELLING
17:00	Vadim Rakitin 1797	Martin Piringer 1897	Iliaria Gandolfi 1919
17:00	WIDESPREAD CHANGES IN UK AIR QUALITY OBSERVED SPACE	COMPARABILITY OF MOBILE SENSOR BOUNDARY LAYER MEASUREMENTS WITH LAGRANGIAN PARTICLE MODELLING	NEIGHBOURHOOD-SCALE DISPERSION OF ULTRAFINE PARTICLES IN LONDON: A WRF LARGE EDDY SIMULATION
17:20	Richard Pope 1970	Sandro Finardi 1869	Jian Zhong 1847
17:20	INTERCOMPARISON OF FOUR AIRBORNE IMAGING DOAS SYSTEMS FOR URBAN NO2 MAPPING - THE AROMAPEX CAMPAIGN	HOW DO TEMPERATURE INVERSIONS CONTROL AEROSOL VERTICAL DISTRIBUTION IN THE ARCTIC IN WINTER AND SPRING?	CFD MODELLING OF THE IMPACT OF HEDGES ON POLLUTANT DISPERSION IN AN ISOLATED STREET CANYON
17:40	Frederik Tack 1936	Manu Anna Thomas 1903	Riccardo Buccolieri 2015
17:40		STUDY AND ANALYSIS OF THE CONCENTRATIONS OF TROPOSPHERIC OZONE IN THE CITY OF MEDELLIN AND THE ABURRA-VALLEY AND THEIR RELATIONSHIP WITH ATMOSPHERIC PHENOMENA	

18:00 Close of sessions

19:30 Conference banquet at Restaurant Shoko (Passeig Marítim 36)

Friday 16 March 2018

08:00 Registration desk open at Campus Ciutadella (infront of the Auditorium)

08:55 Plenary session(AUDITORIUM - ROOM A) Chairs: Ranjeet S Sokhi, Jordi Remírez i Carol

09:00 IMPACT OF AFRICAN DUST ON AIR QUALITY OF SPAIN 2001-2016. IS IT ONLY DUST THAT MATTERS?

Noemí Pérez 2066

09:20 IMPROVED TOOLS FOR ASSESSING NO2 EXPOSURE IN EUROPE

Stijn Janssen 2016

09:40 ARE METHODS TO PREDICT FUTURE AIR QUALITY CONCENTRATIONS RELIABLE ENOUGH TO MAKE POLICY DECISIONS?

Bernard Fisher 1838

10:00 Tea/coffee and poster session (EXHIBITION ROOM)

10:25 Special session - Air Quality in Global Cities (AUDITORIUM - ROOM A) Chair: William Bloss and Mei Zheng

Special Session- Dust and its impacts on air quality and health (ROOM B) Chairs: Sara Basart and Carlos Pérez García-Pando

Development, evaluation and application of air quality related models (ROOM C) Chairs: Charles Chemel and Pushp Raj Tiwari

10:30 THE ROLE OF METEOROLOGICAL CONDITIONS AND POLLUTION CONTROL STRATEGIES IN REDUCING AIR POLLUTION IN BEIJING DURING APEC 2014 AND PARADE 2015

Tong Zhu 2086

TECHNOGENIC DUST STORMS: ANALYSIS OF DUST EMISSION CONDITIONS AND NUMERICAL MODELING OF ATMOSPHERIC TRANSPORT PROCESSES AND EFFICIENCY OF PREVENTING MEASURES

Alexander Baklanov 2049

AIR QUALITY IMPACTS FOR 2030 BASED ON EMISSION PROJECTION SCENARIOS - A MODELLING APPROACH

Joana Ferreira 2028
ESTABLISHING NITROGEN DEPOSITION OVER GERMANY USING MODELLING AND OBSERVATIONS

10:50 RISK INDEX DUE TO CONTINGENCIES OF POOR AIR QUALITY IN GUADALAJARA, MEXICO

Carlos Gonzalez-Figueroa 2017

DUST RELEASE FROM DESERTS AROUND THE GLOBE, AN ATTEMPT OF A UNIFIED SOURCE PARAMETERIZATION

Mikhail Sofiev 1961

Astrid Manders 1826

11:10 IN-VEHICLE PARTICULATE MATTER AIR POLLUTION EXPOSURE IN BIRMINGHAM, UK

Vasileios Matthaios 1990

EXPLORING A DUST EPISODE WITH CHIMERE MODEL

Alexandra Monteiro 1954

TREND ASSESSMENT AND CLUSTERING OF TROPOSPHERIC OZONE CONCENTRATIONS IN EUROPE BASED ON TIME SCALE DECOMPOSITION

Eirini Boleti 1977

11:30 SEASONAL AND SPATIAL COMPARISON OF AMBIENT AIR POLLUTION IN RURAL AND URBAN BEIJING

Yiqun Han 2071

DUST AEROSOL-RADIATION-CLOUDS-PRECIPIATION INTERACTIONS OVER THE MEDITERRANEAN IN THE REPAIR PROJECT

Laura Palacios-Peña 1951

INFLUENCE OF GLOBAL METEOROLOGICAL NCEP DATA IN MODELING THE DISPERSION AND SEDIMENTATION OF VOLCANIC ASH AT MESOSCALE RANGE IN THE ECUADORIAN ANDEAN REGION

Rene Parra 1784

11:50 LEVELS AND MAJOR SOURCES OF PM10 AND PM2.5 IN ISTANBUL METROPOLITAN AREA

Ufuk Malak 2074

SUBMICRON VOLCANIC DUST FROM THE LARGEST DESERT IN EUROPE AND ARCTIC

Pavia Dagsson-Waldhauserova 2073

EXHIBITION

12:10

IDENTIFICATION OF DUST EVENTS BY SYNERGISTIC OBSERVATIONS

Darius Ceburnis 2079

12:10-13:30 Lunch at the University Restaurant - Tea/Coffee in the Exhibition Room

Special session - Air Quality in Global Cities (AUDITORIUM - ROOM A) Chairs: William Bloss and Mei Zheng		Characterisation and Monitoring of air pollutants (ROOM B) Chairs: Helen Smith and Charles Chemel		Local Air Quality and Impacts Studies (ROOM C) Chairs: Alexander Baklanov and Alberto Martilli	
13:45	CALIOPE-URBAN: COUPLING R-LINE WITH CMAQ FOR URBAN STREET-SCALE AIR QUALITY FORECASTS OVER BARCELONA	Jaime Benavides	1914	Nikolay Kasimov	1885
13:50	AIR QUALITY MANAGEMENT IN MEXICO CITY: ASSESSING THE IMPACT OF SHORT-TERM MEASURES ON OZONE CONCENTRATIONS	Marc Guevara	1873	Martin Rigler	1829
14:10	Open Discussion - Challenges facing global cities - way ahead			Gizem Tuna Tuygun	2005
14:30				Ana Alvarez	1806
14:50				Klaus Schaefer	1785
15:10	Plenary session (AUDITORIUM - ROOM A)			Miha Markelj	1843
	Future direction of air quality research			Alberto Martilli	1901
	Chairs: Ranjeet S Sokhi, Jordi Remírez i Carol with Session Chairs and closing words from Gemma Tarafa Orpinell, Commissioner for Health, Barcelona City Council			Fanny Velay-Lasry	1818
15:50	El Dúo del Mar Guitar Performance				
16:30	Close of conference and farewell Tea/coffee (EXHIBITION ROOM)				

Poster sessions (Tuesday 13 to Friday 16 March 2018)

Number

P001	DYNAMICAL EMISSION MODELLING AND ITS EFFECT OF AIR POLLUTION SIMULATIONS WITH LOTOS-EUROS Astrid Manders 1860
P002	FOSSIL FREE VEHICLE FLEET IN STOCKHOLM - IMPORTANCE OF AIR QUALITY AND HEALTH Jennie Hurkmans 1998
P003	DETERMINATION OF VOCS IN AIR FOR ASSESEMENT OF ODOUR EPISODES IN THE CZECH-SAXON BORDER REGION-PROJECT ODCOM Ondrej Reznicek 1955
P004	CHARACTERIZATION OF THE NOX DEPOLUTING EFFECT OF PHOTOCATALYTIC MATERIALS IN A MEDIUM-SCALE TUNNEL REACTOR Manuel Pujadas 1907
P005	STUDY OF THE EFFECTS ON AIRBORNE AND LIXIVIATES DUE TO THE WEAR OF A PHOTOCATALYTIC PRODUCT APPLIED OUTDOORS Lourdes Nuñez 1904
P006	MULTISCALE AIR QUALITY IMPACT FROM POWER PLANTS IN CITIES Fanny Velay-Lasry 1818
P007	AIR QUALITY TRENDS IN A COASTAL CITY, SANTA CRUZ DE TENERIFE Celia Milford 2032
P008	A NEW SAMPLER FOR EVALUATING THE SPATIAL VARIABILITY OF PM COMPONENTS: VALIDATION AND FIELD APPLICATION Lorenzo Massimi 1921
P009	RETRIEVAL OF AEROSOL VERTICAL PROFILES OVER ATHENS USING MAX-DOAS MEASUREMENTS Myrto Gratsea 1819
P010	IMPACT OF SOLAR RADIATION AND EXISTING AEROSOL ON THE FORMATION OF SECONDARY PARTICLES IN A LARGE CITY Matias Tagle 1810
P011	CONTINUOUS ATMOSPHERIC FORMALDEHYDE MEASUREMENT IN A RURAL BACKGROUND AREA IN NORTHERN IBERIAN PENINSULA Maite de Blas 1930
P012	EXPOSURE TO PARTICLES AND THEIR ELEMENTAL COMPOSITION DURING COMMUTE IN CURITIBA, BRAZIL Suzana Curti 2010
P013	ATMOSPHERIC DEPOSITION OF TRACE ELEMENTS BIOMONITORING STUDY AT THE TERRITORY OF THE REPUBLIC OF BELARUS Marina Frontasyeva 1862
P014	TEST RESULTS OF LOW COST SENSORS FOR PARTICULATE MATTER AND GASES FOR THE USE IN OUT DOOR AIR QUALITY Ulrich Vogt 2053
P015	IMPLEMENTATION OF LOW-COST, SMALL SENSORS FOR URBAN AIR POLLUTION MEASUREMENTS ON STATIONARY AND MOBILE PLATFORMS Guillermo Villena 1989
P016	THE UNIVERSAL CLOUD AND AEROSOL SOUNDING SYSTEM (UCASS): AN OPEN PATH PARTICLE COUNTER FOR MULTI-PLATFORM MONITORING OF PARTICULATE MATTER Helen Smith 2091
P017	URBAN MOBILE INSTRUMENTS FOR ENVIRONMENTAL MONITORING URBMOBI 3.0 Janani Venkatraman Jagatha 2011
P018	SUBMICRON AEROSOL SPECIATION IN SANTIAGO, CHILE Matias Tagle 1938
P019	URBAN NANOPARTICLES SIZE DISTRIBUTIONS IN THE METROPOLITAN REGION OF PORTO ALEGRE, BRAZIL Elba Teixeira 1986

P020	SPATIAL CHEMICAL CHARACTERIZATION OF PM _{2.5} AND PM ₁₀ AT SEVEN CHILEAN SITES	Matías Tagle	1807
P021	FEASIBILITY STUDY OF PHOTOCATALYTIC MATERIALS TO IMPROVE URBAN AIR QUALITY	Magdalena Palacios	1905
P022	OXIDATIVE POTENTIAL IN PM FIELD SAMPLES	Lorenzo Massimi	1908
P023	THE SATELLITE-BASED MONITORING INITIATIVE FOR REGIONAL AIR QUALITY (SAMIRA)	Matthias Vogt	1899
P024	UNCONVENTIONAL CARRIERS TO CONDUCT AIR QUALITY MEASUREMENTS	Mariusz Rogulski	2004
P025	EXPOSURE TO PARTICLES AND THEIR ELEMENTAL COMPOSITION DURING COMMUTE IN CURITIBA, BRAZIL	Suzana Curti	2010
P026	SENSORS IN AIR QUALITY MONITORING IN HELSINKI - FIELD TEST RESULTS AND UTILIZATION OF COMPLEMENTARY SENSOR NETWORKS	Jarkko Niemi	1988
P027	SAMPLE PREPARATION AFFECTS METAL DISTRIBUTION IN A BIOMONITOR AFTER EXPOSURE TO SIMULATED ATMOSPHERIC NANO-POLLUTION: CELL MEMBRANE INTEGRITY ASSESSMENT	Oldrich Motyka	1884
P028	HOTSPOT MONITORING OF BTEX CONCENTRATIONS AT AN INTERNATIONAL AIRPORT IN SOUTH AFRICA	Raeesa Moolla	1953
P029	PILOT STUDY OF THE IMPACT ON ENERGY EFFICIENCY AND EMISSIONS OF APPLYING GREEN PLUS CATALYSIS TECHNOLOGY TO DIESEL VEHICLES IN THE ABURRA VALLEY-COLOMBIA	Miriam Gomez	1851
P030	EXTENDED CYCLING OPERATION OF A COPPER-BASED TYPE SOX ADSORBENT	Marc Berger	1840
P031	ASSESSMENT OF THE METHANE PRODUCING AND EMISSION IN THE DOMINANT LANDSCAPES OF TYPICAL TUNDRA OF THE WESTERN YAMAL	Alexander Vasiliev	1857
P032	COASTAL RETREAT AND METHANE EMISSION IN THE WESTERN YAMAL	Irina Streletskaia	1841
P033	PAHS EMISSIONS FROM BIOMASS FUELS BURNING IN IGP PLAIN INDIA	Dharampal Singh	2037
P034	EVALUATION OF TRAFFIC EMISSION MODELS COUPLED WITH A MICROSCOPIC TRAFFIC SIMULATOR WITH ON-ROAD MEASURES	Daniel Rodriguez Rey	1804
P035	BIG DATA IN ENVIRONMENTAL AND OCCUPATIONAL EPIDEMIOLOGY: THE BEEP PROJECT	Claudio Gariazzo	1923
P036	AEROBIC EXERCISE BENEFITS ON OXIDATIVE STRESS IN RATS EXPOSED TO AIR POLLUTION	Bruna Marmett	1771
P037	HARMFUL EFFECTS OF OCCUPATIONAL EXPOSURE TO TRAFFIC-RELATED AIR POLLUTION ON OXIDATIVE AND GENETIC OUTCOMES IN PROFESSIONAL MOTORCYCLISTS	Roseana Boek Carvalho	1770
P038	REDUCING PERSONAL EXPOSURE TO FINE AND ULTRAFINE PARTICLE BY MEANS OF IMPROVED COOKSTOVES IN RURAL SENEGAL	Mar Viana	1850
P039	SPATIAL DISTRIBUTION OF AIRBORNE POLLEN-INDUCED HEALTH SYMPTOMS IN BERLIN	Hans-Guido Mücke	1825

P040	MAIN SOURCES OF OXIDATIVE STRESS INDUCED BY AIRBORNE PARTICULATE MATTER	
	Dimitris Chapizanis	2038
P041	MODELING OUTDOOR ULTRAFINE PARTICLES INFILTRATION INTO AN INDOOR ENVIRONMENT IN NATURAL AND MECHANICAL VENTILATION SYSTEMS	
	Claudio Gariazzo	1789
P042	INDOOR PM10 AND PM2.5 PARTICULATE MATTER POLLUTION ASSESSMENT ACCORDING AMBIENT AIR QUALITY AND USE OF AIR PURIFIERS	
	Jakub Bartyzel	1927
P043	DISCUSSION ON THE REPRESENTATIVENESS OF CURRENT METHODOLOGIES TO ASSESS INDOOR AIR QUALITY	
	Matthias Vogt	1812
P044	CONNECTION BETWEEN VENTILATION REGIMES, TKE AND PARTICULATE MATTER IN INDOOR AIR	
	Armando Pelliccioni	1906
P045	THE IMPACT OF URBAN CANOPY METEOROLOGICAL FORCING ON AEROSOL CONCENTRATIONS	
	Peter Huszar	1913
P046	INTERRELATIONS BETWEEN FORMALDEHYDE, CONVENTIONAL POLLUTANTS, NON-OXYGENATED VOCs, AND METEOROLOGY IN A RURAL FORESTED AREA IN NORTHERN IBERIAN PENINSULA	
	Maite de Blas	1928
P047	THREE-DIMENSIONAL WIND ANALYSIS FOR AIR QUALITY MODELLING APPLICATIONS AT THE CIVITAVECCHIA PORT SITE (CENTRAL ITALY)	
	Gabriele Curci	1925
P048	ON THE DIRECT MEASURE OF DRAG FORCE OVER SIMPLIFIED GROUPS OF OBSTACLES	
	Riccardo Buccolieri	1878
P049	ESTIMATES OF DIRECT RADIATIVE EFFECTS OF BACKGROUND AND SMOKE AEROSOLS IN IR SPECTRAL RANGE FOR SIBERIAN SUMMER CONDITIONS: RESULTS OF NUMERICAL SIMULATION	
	Tatiana Zhuravleva	1868
P050	SHORTWAVE RADIATION AND TEMPERATURE EFFECTS OF BACKGROUND AND SMOKE AEROSOL IN THE ATMOSPHERE OF SIBERIA ON THE BASIS OF EMPIRICAL DATA	
	Tatiana Zhuravleva	1867
P051	ASSESSMENT OF PLANETARY BOUNDARY LAYER SCHEMES IN MODELING THE DISPERSION AND SEDIMENTATION OF VOLCANIC ASH IN ECUADOR	
	Rene Parra	1786
P052	A SENSITIVITY ANALYSIS FOR DETERMINING OPTIMUM WRF AND CALPUFF CONFIGURATION FOR OPERATIONAL AIR QUALITY FORECAST. APPLICATION TO A CASE STUDY IN THE PORT OF HUELVA	
	Maria Angeles Gonzalez	1980
P053	HYBRID ARTIFICIAL NEURAL NETWORK COUPLED WITH KALMAN FILTERS FOR AIR QUALITY FORECASTING IN GUADALAJARA, MEXICO	
	Carlos Gonzalez-Figueroa	1912
P054	SURFACE OZONE EXCEEDANCES IN ITALY: STATISTICAL ANALYSIS AND MODELLING IN THE PERIOD 2002-2016	
	Serena Falasca	1879
P055	SENSITIVITY STUDY OF THE AIR QUALITY MODELLING TOOL WRF-CHIMERE TO HORIZONTAL RESOLUTION AND URBAN CANOPY MODELS OVER ITALY	
	Serena Falasca	1863
P056	DISPERSION MODELING OF RADON TO AID EMISSION ASSESSMENT: THE PRIDNEPROVSKY CHEMICAL PLANT	
	Christian Asker	1894
P057	UMO: SIMULATING THE DISPERSION OF NOX EMISSIONS BY TRAFFIC AND DOMESTIC HEATING IN MODENA	
	Giorgio Veratti	2048
P058	METHODOLOGY FOR INVERSE DISPERSION MODELLING IN URBAN AREAS	
	Nicolas Moussiopoulos	2062
P059	TEMPORAL VARIATIONS IN LONG-RANGE ATMOSPHERIC TRANSPORT OF AIR MASSES AND ANTHROPOGENIC HEAVY METALS TO THE RUSSIAN ARCTIC: 1986-2016	

P060	Anna Vinogradova A SIMPLE AIR POLLUTION DISPERSION MODEL DEVELOPED IN DIFFERENT REAL URBAN STREET CANYONS	1880
P061	Mariana Dezzutti USE OF WRF METEOROLOGY IN THE LOTOS-EUROS CHEMISTRY TRANSPORT MODEL	1790
P062	Astrid Manders A FRAMEWORK FOR AIR QUALITY MODELLING USING OPENFOAM	1893
P063	David Segersson OPTIMIZATION OF DUST-BINDING USING THE NORTRIP-MODEL	1814
P064	Kristina Eneroth MODELLING OF BENZO(A)PYRENE IN SE SPAIN TO DETERMINE LEVELS, HUMAN HEALTH FACTORS AND CLIMATE CHANGE EFFECTS	1963
P065	Pedro Jimenez-Guerrero MONITORING OF AMBIENT AIR POLLUTION VIA LOCAL REMOTE SENSORS AND ITS EFFECTS TO AGRICULTURAL CROPS IN PAKISTAN: A THREAT TO THE FUTURE FOOD SECURITY OF SOUTH -ASIA?	2035
P066	Muhammad Nauman Ahmad SAHARAN-DUST CONTRIBUTION TO PM10 LEVELS IN ITALY OVER THE 7-YEAR PERIOD 2006-2012	1765
P067	Francesca Barnaba STUDY OF THE CONTEMPORARY OCCURRENCE OF HIGH LEVELS OF AIR POLLUTANTS AND POLLENS IN THE CITY OF ROME	1948
P068	Alessandro Di Menno di Bucchianico ACTIVE BIOMONITORING OF AIR POLLUTION IN BAKU, THE CAPITAL OF AZERBAIJAN	1915
P069	Afag Madadzada AIRBORNE PARTICULATE MATTER MONITORING IN NAIROBI, KENYA USING CALIBRATED LOW COST SENSORS	1782
P070	Rhiannon Blake PERFORMANCE OF LOW COST AIR QUALITY SENSORS IN A REAL WORLD APPLICATION	1870
	Alessandro Bigi	2022